DDDDDDDDDDDD TTTTTTTTTTTTTTT SSSSSSSSSSS DDDDDDDDDDDD TTTTTTTTTTTTTTT RRRRRRRRRRR
DDDDDDDDDDDD TTTTTTTTTTTTTTT SSSSSSSSSSS DDDDDDDDDDDD TTTTTTTTTTTTTTT RRRRRRRRRRR
DDDDDDDDDDDD TTTTTTTTTTTTTTT SSSSSSSSSSS DDDDDDDDDDDD TTTTTTTTTTTTTTT RRRRRRRRRRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSSSSSSSS DDD DDD TTT RRRRRRRRRRR
DDD DDD TTT SSSSSSSSS DDD DDD TTT RRRRRRRRRRR
DDD DDD TTT SSSSSSSSS DDD DDD TTT RRRRRRRRRRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDDDDDDDDDDD TTT SSSSSSSSSSS DDDDDDDDDDDD TTT RRR RRR
DDDDDDDDDDDD TTT SSSSSSSSSSS DDDDDDDDDDDD TTT RRR RRR
DDDDDDDDDDDD TTT SSSSSSSSSSS DDDDDDDDDDDD TTT RRR RRR

FILEID**DTRTEST

```
DDDDDDDD    TTTTTTTTTT  RRRRRRRR    TTTTTTTTTT  EEEEEEEEEE    SSSSSSSS  TTTTTTTTTT
DDDDDDDD    TTTTTTTTTT  RRRRRRRR    TTTTTTTTTT  EEEEEEEEEE    SSSSSSSS  TTTTTTTTTT
DD      DD      TT      RR      RR      TT      EE            SS            TT
DD      DD      TT      RR      RR      TT      EE            SS            TT
DD      DD      TT      RR      RR      TT      EE            SS            TT
DD      DD      TT      RR      RR      TT      EE            SS            TT
DD      DD      TT      RRRRRRRR        TT      EEEEEEEE        SSSSSS      TT
DD      DD      TT      RRRRRRRR        TT      EEEEEEEE        SSSSSS      TT
DD      DD      TT      RR   RR         TT      EE                    SS    TT
DD      DD      TT      RR   RR         TT      EE                    SS    TT
DD      DD      TT      RR    RR        TT      EE                    SS    TT          ....
DD      DD      TT      RR    RR        TT      EE                    SS    TT          ....
DDDDDDDD        TT      RR      RR      TT      EEEEEEEEEE  SSSSSSSS        TT          ....
DDDDDDDD        TT      RR      RR      TT      EEEEEEEEEE  SSSSSSSS        TT          ....

LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

Table of contents

(2) 44 DECLARATIONS
(3) 67 TST$CONN_DTR - CONNECT TEST
(4) 158 TST$DATA_DTR - DATA TEST
(5) 344 TST$DISC_DTR - DISCONNECT TEST
(6) 441 TST$INTE_DTR - INTERRUPT TEST
(7) 570 TST$MISC_DTR - MISCELLANEOUS TEST
(8) 619 TST$BAD_DTR - INVALID TEST TYPE

```
0000     1          .TITLE  TST$DTRTEST - DTR TEST ROUTINES
0000     2          .IDENT  'V04-000'
0000     3
0000     4  ;
0000     5  ;**********************************************************************
0000     6  ;*                                                                    *
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0000    24  ;*                                                                    *
0000    25  ;*                                                                    *
0000    26  ;**********************************************************************
0000    27  ;
0000    28
0000    29  ;++
0000    30  ; FACILITY: DTS/DTR DECNET TEST PACKAGE
0000    31  ;
0000    32  ; ABSTRACT:
0000    33  ;       THIS MODULE IMPLEMENTS THE CONNECT, DATA, DISCONNECT,
0000    34  ;       INTERRUPT, AND MISCELLANEOUS TEST SEQUENCES FOR DTR.
0000    35  ;
0000    36  ; ENVIRONMENT: DTR RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000    37  ;
0000    38  ; AUTHOR: JAMES A. KRYCKA,      CREATION DATE: 11-AUG-77
0000    39  ;
0000    40  ; MODIFICATIONS:
0000    41  ;
0000    42  ;--
```

```
0000     44          .SBTTL  DECLARATIONS
0000     45
0000     46 ;
0000     47 ; INCLUDE FILES:
0000     48 ;
0000     49          $DTSDEF
0000     50          CMDDEF                          ; DEFINE COMMAND LANGUAGE SYMBOLS
0000     51          EFNDEF                          ; DEFINE EFN'S AND FUNCTION CODES
0000     52          $MSGDEF                         ; DEFINE MAILBOX MESSAGE ID CODES
0000     53          .IIF NE K_LIST_MEB, .LIST MEB   ; DEFINED IN DTPREFIX.MAR
0000     54 ;
0000     55 ; MACROS:
0000     56 ;
0000     57 ;        NONE
0000     58 ;
0000     59 ; EQUATED SYMBOLS:
0000     60 ;
0000     61 ;        NONE
0000     62 ;
0000     63 ; OWN STORAGE:
0000     64 ;
0000     65 ;        NONE
```

```
                        67          .SBTTL  TST$CONN_DTR - CONNECT TEST
                        68          .PSECT  TST$CODE        NOWRT
                        69  RT::                                    ; SYMBOL FOR DEBUGGING PURPOSES
                        70
                        71  ;++
                        72  ; FUNCTIONAL DESCRIPTION:
                        73  ;
                        74  ;       NONE
                        75  ;
                        76  ; CALLING SEQUENCE:
                        77  ;
                        78  ;       BSB/JSB TST$CONN_DTR
                        79  ;
                        80  ; INPUT PARAMETERS:
                        81  ;
                        82  ;       R9      TEST SUBFUNCTION VALUE
                        83  ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                        84  ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                        85  ;
                        86  ; IMPLICIT INPUTS:
                        87  ;
                        88  ;       NONE
                        89  ;
                        90  ; OUTPUT PARAMETERS:
                        91  ;
                        92  ;       R0      COMPLETION CODE
                        93  ;       R1      ADDRESS OF TEST ID STRING
                        94  ;       R2-R11  DESTROYED
                        95  ;
                        96  ; IMPLICIT OUTPUTS:
                        97  ;
                        98  ;       NONE
                        99  ;
                       100  ; COMPLETION CODES:
                       101  ;
                       102  ;       R0      1 = SUCCESS; 0 = FAILURE
                       103  ;
                       104  ; SIDE EFFECTS:
                       105  ;
                       106  ;       NONE
                       107  ;
                       108  ;--
                       109
                       110  TST$CONN_DTR::                          ; ENTRY POINT
        05   59   91    0000   111          CMPB    R9,#5           ;
             0C   1B    0003   112          BLEQU   5$              ;
           018A   30    0005   113          BSBW    TST$CONN_REJECT ; ISSUE CONNECT REJECT
50 01F58053 8F   D0    0008   114          MOVL    #DTS$_BADSUBFCN,R0      ; GIVE REASON FOR FAILURE
             56   11    000F   115          BRB     CONN_FAILURE    ;
56   59   FF 8F   9C    0011   116  5$:     ROTL    #-1,R9,R6       ; DIVIDE CONTEST FIELD BY 2 TO
                         0016   117                                  ;  DETERMINE WHAT TYPE (IF ANY)
                         0016   118                                  ;  OF USERDATA IS TO BE RETURNED.
                         0016   119          $CASEB  SELECTOR=R6,DISPL=<- ; RETURN:
                         0016   120                  10$-            ;  NO USERDATA
                         0016   121                  20$-            ;  STANDARD DATA
                         0016   122                  30$-            ;  RECEIVED DATA
                         0016   123          >                       ;
```

```
                     6A   94   0020   124 10$:     CLRB    (R10)                           ; ZERO LENGTH OF USERDATA STRING
                     09   11   0022   125          BRB     30$                             ; CONTINUE
                8A   10   90   0024   126 20$:     MOVB    #16,(R10)+                      ; STORE 16 BYTES OF THE STANDARD
                                0027   127                                                  ;  DATA PATTERN AS A COUNTED STRING
            6A  0001'CF   10   28   0027   128          MOVC3   #16,W^TST$GT_STANDARD+1,(R10) ; ''
                                0027   129
                                002D   130 ;
                                002D   131 ; RESPOND WITH CONNECT ACCEPT OR CONNECT REJECT AS APPROPRIATE.
                                002D   132 ;
                                002D   133
                52   02   D0   002D   134 30$:     MOVL    #EFN_K_CONN_REJE,R2             ; ASSUME CONNECT REJECT
                  03 59   E9   0030   135          BLBC    R9,40$                          ; IS IT A REJECT REQUEST?
                52   01   D0   0033   136          MOVL    #EFN_K_CONN_ACCE,R2             ; NO, IT'S A CONNECT ACCEPT
                54   5B   D0   0036   137 40$:     MOVL    R11,R4                          ; P2 = ADDRESS OF NCB DESCRIPTOR BLOCK
                   FFC4'  30   0039   138          BSBW    TST$QIOW                        ; RESPOND TO CONNECT INITIATE
                  25 59   E9   003C   139          BLBC    R9,CONN_SUCCESS                 ;DID WE REJECT THE CONNECTION?
                                003F   140                                                  ;NO, WAIT FOR DISCONNECT FROM DTS
                52   00   D0   003F   141          MOVL    #EFN_K_READ_MAIL,R2             ;GET FUNCTION/INDEX CODE
             54   00'8F   9A   0042   142          MOVZBL  #TST$K_MAILBUF,R4               ;GET MAILBOX BUFFER SIZE
                   FFB7'  30   0046   143          BSBW    TST$QIOW                        ;READ MAILBOX
                   FFB4'  30   0049   144          BSBW    TST$EXAM_MAIL                   ;PARSE MAILBOX MESSAGE
                33   56   B1   004C   145          CMPW    R6,#MSG$_DISCON                 ;WAS IT A SYNCHRONOUS DISCONNECT?
                     13   13   004F   146          BEQLU   CONN_SUCCESS                    ;YES, THAT'S OK
                30   56   B1   0051   147          CMPW    R6,#MSG$_ABORT                  ;WAS IT A DISCONNECT ABORT?
                     0E   13   0054   148          BEQLU   CONN_SUCCESS                    ;YES, THAT'S OK TOO
          50  01F5803B   8F   D0   0056   149          MOVL    #DTS$_BADMAIL,R0                ;NOTE INVALID MAIL
        0000'CF   56   3C   005D   150          MOVZWL  R6,W^TST$GL_FAOARG              ;NOTE TYPE OF MAIL
                     03   11   0062   151          BRB     CONN_FAILURE                    ;
                                0064   152 CONN_SUCCESS:                                  ; TEST WAS SUCCESSFUL
                50   01   D0   0064   153          MOVL    #1,R0                           ; SET COMPLETION CODE TO SUCCESS
                                0067   154 CONN_FAILURE:                                  ; ENTER HERE IF TEST FAILED
             51   0000'CF   9E   0067   155          MOVAB   W^TST$GT_CONN,R1                ; RETURN ADDRESS OF TEST ID STRING
                     05   006C   156          RSB                                     ; YES, EXIT
```

```
                     006D   158          .SBTTL  TST$DATA_DTR - DATA TEST
                 0000006D   159          .PSECT  TST$CODE        NOWRT
                     006D   160
                     006D   161 ;++
                     006D   162 ; FUNCTIONAL DESCRIPTION:
                     006D   163 ;
                     006D   164 ;       NONE
                     006D   165 ;
                     006D   166 ; CALLING SEQUENCE:
                     006D   167 ;
                     006D   168 ;       BSB/JSB TST$DATA_DTR
                     006D   169 ;
                     006D   170 ; INPUT PARAMETERS:
                     006D   171 ;
                     006D   172 ;       R9      TEST SUBFUNCTION VALUE
                     006D   173 ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                     006D   174 ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                     006D   175 ;
                     006D   176 ; IMPLICIT INPUTS:
                     006D   177 ;
                     006D   178 ;       NONE
                     006D   179 ;
                     006D   180 ; OUTPUT PARAMETERS:
                     006D   181 ;
                     006D   182 ;       R0      COMPLETION CODE
                     006D   183 ;       R1      ADDRESS OF TEST ID STRING
                     006D   184 ;       R2-R11  DESTROYED
                     006D   185 ;
                     006D   186 ; IMPLICIT OUTPUTS:
                     006D   187 ;
                     006D   188 ;       NONE
                     006D   189 ;
                     006D   190 ; COMPLETION CODES:
                     006D   191 ;
                     006D   192 ;       R0      1 = SUCCESS; 0 = FAILURE
                     006D   193 ;
                     006D   194 ; SIDE EFFECTS:
                     006D   195 ;
                     006D   196 ;       NONE
                     006D   197 ;
                     006D   198 ;--
                     006D   199
                     006D   200 TST$DATA_DTR::                          ; ENTRY POINT
          03   59   91  006D   201          CMPB    R9,#VAL_K_TYPE_ECHO     ;
               0C   1B  0070   202          BLEQU   10$                     ;
            011D   30  0072   203          BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
50 01F58053   8F   D0  0075   204          MOVL    #DTS$_BADSUBFCN,R0              ; GIVE REASON FOR FAILURE
               6B   11  007C   205          BRB     55$                     ;
      50   03   AA   9E  007E   206 10$:    MOVAB   3(R10),R0               ; SAVE REMAINING FIELDS IN MESSAGE
           02   60   91  0082   207          CMPB    (R0),#VAL_K_FLOW_MESS   ;
               0C   13  0085   208          BEQL    20$                     ;
            0108   30  0087   209          BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
50 01F58063   8F   D0  008A   210          MOVL    #DTS$_INVOPTION,R0              ; GIVE REASON FOR FAILURE
               56   11  0091   211          BRB     55$                     ;
    0000'CF    80   90  0093   212 20$:    MOVB    (R0)+,W^TST$GB_FLOW     ; STORE FCOPT VALUE
           01   60   91  0098   213          CMPB    (R0),#1                 ;
               0C   13  009B   214          BEQL    30$                     ;
```

```
                                                B 2
                00F2   30   009D   215          BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
     50  01F58063 8F   D0   00A0   216          MOVL    #DTS$_INVOPTION,R0              ; GIVE REASON FOR FAILURE
                40   11   00A7   217          BRB     55$                     ;
          0000'CF   80   90   00A9   218 30$:   MOVB    (R0)+,W^TST$GB_RQUEUE   ; STORE FCVAL VALUE
                60   95   00AE   219          TSTB    (R0)                    ;
                 0C   13   00B0   220          BEQL    40$                     ;
                00DD   30   00B2   221          BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
     50  01F58063 8F   D0   00B5   222          MOVL    #DTS$_INVOPTION,R0              ; GIVE REASON FOR FAILURE
                2B   11   00BC   223          BRB     55$                     ;
          0000'CF   80   90   00BE   224 40$:   MOVB    (R0)+,W^TST$GB_NAK      ; STORE NAK VALUE
                60   95   00C3   225          TSTB    (R0)                    ;
                 0C   13   00C5   226          BEQL    50$                     ;
                00C8   30   00C7   227          BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
     50  01F58063 8F   D0   00CA   228          MOVL    #DTS$_INVOPTION,R0              ; GIVE REASON FOR FAILURE
                16   11   00D1   229          BRB     55$                     ;
          0000'CF   80   90   00D3   230 50$:   MOVB    (R0)+,W^TST$GB_BACK     ; STORE BPVAL VALUE
          1000 8F   60   B1   00D8   231          CMPW    (R0),#MAX_K_SIZE_DA     ;
                 0D   15   00DD   232          BLEQ    60$                     ;
                00B0   30   00DF   233          BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
     50  01F58063 8F   D0   00E2   234          MOVL    #DTS$_INVOPTION,R0              ; GIVE REASON FOR FAILURE
                009B   31   00E9   235 55$:   BRW     DATA_FAILURE            ;
          0000'CF   80   B0   00EC   236 60$:   MOVW    (R0)+,W^TST$GW_SIZE     ; STORE MSGLEN VALUE
                       00F1   237
                       00F1   238 ;
                       00F1   239 ; RESPOND TO CONNECT INITIATE WITH A CONNECT ACCEPT WITHOUT USERDATA.
                       00F1   240 ;
                       00F1   241
                0099   30   00F1   242          BSBW    TST$CONN_ACCEPT         ;
                       00F4   243
                       00F4   244 ;
                       00F4   245 ; DATA TEST INITIALIZATION
                       00F4   246 ;
                       00F4   247
                0000'CF   7C   00F4   248          CLRQ    W^TST$GL_XMITDATA       ; ZERO TRANSMIT AND RECEIVE
                       00F8   249                                          ;  MESSAGE COUNTERS
                0000'CF   7C   00F8   250          CLRQ    W^TST$GL_XMITINTE       ; ZERO TRANSMIT AND RECEIVE
                       00FC   251                                          ;  INTERRUPT MESSAGE COUNTERS
           0000'CF    01   D0   00FC   252          MOVL    #1,W^TST$GL_STATUS      ; SET AST STATUS CODE TO SUCCESS
                0000'CF   94   0101   253          CLRB    W^TST$GB_ASTFLAGS       ;NOTE TIMER RUNNING
00000000'EF   00000000'EF   DE   0105   254          MOVAL   TST$QB_QHEAD,TST$QB_QHEAD;INIT QUEUE HEAD
00000004'EF   00000000'EF   DE   0110   255          MOVAL   TST$QB_QHEAD,TST$QB_QHEAD+4
                       011B   256 ;
                       011B   257 ; PUT REPETITIONS OF THE STANDARD DATA PATTERN IN THE MESSAGE BUFFER
                       011B   258 ; BEGINNING AT BUFFER+4.
                       011B   259 ;
                       011B   260
           53   0000'CF   9E   011B   261          MOVAB   W^TST$GB_XMITBUF,R3     ; GET ADDRESS OF MESSAGE
                     83   D4   0120   262          CLRL    (R3)+                   ; INITIALIZE MESSAGE SEQUENCE NUMBER
           54   0000'CF   3C   0122   263          MOVZWL  W^TST$GW_SIZE,R4        ; GET MESSAGE SIZE
                54   04   B1   0127   264          CMPW    #4,R4                   ;ANY DATA IN MSG?
                     06   18   012A   265          BGEQ    70$                     ;NO, SO WHY FILLBUFFER
                54   04   C2   012C   266          SUBL2   #4,R4                   ; REDUCE SIZE ACCORDINGLY
                   FECE'   30   012F   267          BSBW    TST$STANDARD            ; PUT STD DATA PATTERN IN BUFFER
                       0132   268
                       0132   269 70$:
                       0132   270 ;
                       0132   271 ; RECEIVE [AND TRANSMIT] DATA MESSAGES UNTIL DTS DISCONNECTS THE LINK
```

```
                        0132   272 ;
                        0132   273
        52    07    D0  0132   274          MOVL    #EFN_K_RECV_DATA,R2      ; GET FUNCTION/INDEX CODE
  54    0000'CF   3C    0135   275          MOVZWL  W^TST$GW_SIZE,R4         ; GET MESSAGE SIZE
  55    0000'CF   9E    013A   276          MOVAB   W^TST$RECVAST_DTR,R5     ; GET ADDRESS OF AST ROUTINE
           FEBE'  30    013F   277          BSBW    TST$QIOAST               ; START UP RECEIVE MESSAGE STREAM
        52    00    D0  0142   278          MOVL    #EFN_K_READ_MAIL,R2      ; GET FUNCTION/INDEX CODE
     54    00'8F   9A    0145   279          MOVZBL  #TST$K_MAILBUF,R4        ; GET MAILBOX BUFFER SIZE
  55    0000'CF   9E    0149   280          MOVAB   W^TST$MAILAST_DTR,R5     ; GET ADDRESS OF AST ROUTINE
           FEAF'  30    014E   281          BSBW    TST$QIOAST               ; START UP READ MAILBOX STREAM
                        0151   282
                        0151   283 ;
                        0151   284 ; WAIT FOR LINK DISCONNECT
                        0151   285 ;
                        0151   286
              07    11  0151   287          BRB     110$                     ;CHECK FOR ASTS
                        0153   288 100$:
                        0153   289          $HIBER_S                         ;GO TO SLEEP TILL AN AST
                        015A   290 110$:
     23 0000'CF   E8    015A   291          BLBS    W^TST$GB_ASTFLAGS,120$   ;JUMP IF TIMER EXPIRED
50   00000000'FF   0F    015F   292          REMQUE  @TST$QB_QHEAD,R0         ;DEQUEUE AN AST
              EB    1D  0166   293          BVS     100$                     ;NOTHING THERE ,SLEEP
  52    0000'C0   D0    0168   294          MOVL    TST$QB_CODE(R0),R2               ;QIO FUNCTION/CODE
  54    0000'C0   D0    016D   295          MOVL    TST$QB_BUFLEN(R0),R4             ;SIZE FOR DATA MSG
  55    0000'C0   D0    0172   296          MOVL    TST$QB_ASTADR(R0),R5     ;AST ADDRESS FOR QIO
           FE86'  30    0177   297          BSBW    TST$QIOAST               ;DO QIO WITH AST
                        017A   298          CHECK_SS                         ;MAKE SERVICE OKAY
        DA 51    E8    017D   299          BLBS    R1,110$                  ;IF OKAY BR
              05    11  0180   300          BRB     DATA_FAILURE             ;LINK ABORTED
                        0182   301 120$:
                        0182   302
                        0182   303 ;
                        0182   304 ; DATA TEST IS FINISHED
                        0182   305 ;
                        0182   306
50    0000'CF   D0    0182   307          MOVL    W^TST$GL_STATUS,R0       ; POST STATUS
                        0187   308 DATA_FAILURE:                            ; ENTER HERE IF TEST FAILED
51    0000'CF   9E    0187   309          MOVAB   W^TST$GT_DATA,R1         ; RETURN ADDRESS OF TEST ID STRING
              05    018C   310          RSB                              ; EXIT
                        018D   311
                        018D   312 ;
                        018D   313 ; SUBROUTINE TO ISSUE A CONNECT ACCEPT WITHOUT USERDATA.
                        018D   314 ;
                        018D   315
                        018D   316 TST$CONN_ACCEPT::                        ; CONTROL POINT
        52    01    D0  018D   317          MOVL    #EFN_K_CONN_ACCE,R2      ; GET FUNCTION/INDEX CODE
              03    11  0190   318          BRB     ACCEPT_REJECT            ; JOIN COMMON CODE
                        0192   319
                        0192   320 ;
                        0192   321 ; SUBROUTINE TO ISSUE A CONNECT REJECT WITHOUT USERDATA.
                        0192   322 ;
                        0192   323
                        0192   324 TST$CONN_REJECT::                        ; CONTROL POINT
        52    02    D0  0192   325          MOVL    #EFN_K_CONN_REJE,R2      ; GET FUNCTION/INDEX CODE
                        0195   326 ACCEPT_REJECT:                           ; CONTROL POINT
                        0195   327
                        0195   328 ;
```

```
                        0195   329 ; AN ALTERNATE TO THE FOLLOWING TWO INSTRUCTIONS IS:
                        0195   330 ;
                        0195   331 ;       CLRB    (R10)
                        0195   332 ;
                        0195   333 ; THE LONGER SEQUENCE BELOW IS USED TO CHECKOUT NETACP'S HANDLING
                        0195   334 ; OF NO USERDATA STRING PRESENT.
                        0195   335 ;
                        0195   336
          8A   22   90  0195   337         MOVB    #^A\"\,(R10)+           ; TERMINATE NCB STRING BEFORE
                        0198   338                                         ;  COUNTED USERDATA STRING
    6B    5A   04 AB    C3  0198   339         SUBL3   4(R11),R10,(R11)    ; REDUCE SIZE IN NCB DESCRIPTOR
          54    5B      D0  019D   340         MOVL    R11,R4              ; P2 = ADDRESS OF NCB DESCRIPTOR BLOCK
              FE5D'     30  01A0   341         BSBW    TST$QIOW            ; ISSUE THE CONNECT REJECT
                        05  01A3   342         RSB                         ; EXIT
```

```
                        01A4   344          .SBTTL  TST$DISC_DTR - DISCONNECT TEST
                 000001A4   345          .PSECT  TST$CODE        NOWRT
                        01A4   346
                        01A4   347 ;++
                        01A4   348 ; FUNCTIONAL DESCRIPTION:
                        01A4   349 ;
                        01A4   350 ;       NONE
                        01A4   351 ;
                        01A4   352 ; CALLING SEQUENCE:
                        01A4   353 ;
                        01A4   354 ;       BSB/JSB TST$DISC_DTR
                        01A4   355 ;
                        01A4   356 ; INPUT PARAMETERS:
                        01A4   357 ;
                        01A4   358 ;       R9      TEST SUBFUNCTION VALUE
                        01A4   359 ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                        01A4   360 ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                        01A4   361 ;
                        01A4   362 ; IMPLICIT INPUTS:
                        01A4   363 ;
                        01A4   364 ;       NONE
                        01A4   365 ;
                        01A4   366 ; OUTPUT PARAMETERS:
                        01A4   367 ;
                        01A4   368 ;       R0      COMPLETION CODE
                        01A4   369 ;       R1      ADDRESS OF TEST ID STRING
                        01A4   370 ;       R2-R11  DESTROYED
                        01A4   371 ;
                        01A4   372 ; IMPLICIT OUTPUTS:
                        01A4   373 ;
                        01A4   374 ;       NONE
                        01A4   375 ;
                        01A4   376 ; COMPLETION CODES:
                        01A4   377 ;
                        01A4   378 ;       R0      1 = SUCCESS; 0 = FAILURE
                        01A4   379 ;
                        01A4   380 ; SIDE EFFECTS:
                        01A4   381 ;
                        01A4   382 ;       NONE
                        01A4   383 ;
                        01A4   384 ;--
                        01A4   385
                        01A4   386 TST$DISC_DTR::                          ; ENTRY POINT
              05   59   91  01A4   387          CMPB    R9,#5               ;
                 0C   1B  01A7   388          BLEQU   5$                  ;
               FFE6   30  01A9   389          BSBW    TST$CONN_REJECT     ; ISSUE CONNECT REJECT
50   01F58053   8F   D0  01AC   390          MOVL    #DTS$_BADSUBFCN,R0  ;  GIVE REASON FOR FAILURE
                 4B   11  01B3   391          BRB     DISC_FAILURE        ;
                        01B5   392
                        01B5   393 ;
                        01B5   394 ; RESPOND TO CONNECT INITIATE WITH A CONNECT ACCEPT WITHOUT USERDATA.
                        01B5   395 ;
                        01B5   396
              57   6A   90  01B5   397 5$:      MOVB    (R10),R7            ; SAVE USERDATA STRING COUNT
                 FFD2   30  01B8   398          BSBW    TST$CONN_ACCEPT     ;
                   5A   D7  01BB   399          DECL    R10                 ; RESTORE POINTER
              6A   57   90  01BD   400          MOVB    R7,(R10)            ; RESTORE USERDATA STRING COUNT
```

```
                        01C0   401
                        01C0   402 ;
                        01C0   403 ; CONTINUE SET-UP FOR DISCONNECT OF LINK JUST ESTABLISHED.
                        01C0   404 ;
                        01C0   405
    54    0000'CF   7E  01C0   406          MOVAQ   W^TST$GQ_DEACCESS,R4    ; P2 = ADDR OF USERDATA DESC BLOCK
56  59      FF 8F   9C  01C5   407          ROTL    #-1,R9,R6               ; DIVIDE DISTEST FIELD BY 2 TO
                        01CA   408                                          ; DETERMINE WHAT TYPE (IF ANY)
                        01CA   409                                          ; OF USERDATA IS TO BE RETURNED.
                        01CA   410          $CASEB  SELECTOR=R6,DISPL=<-    ; RETURN:
                        01CA   411                  10$-                    ;  NO USERDATA
                        01CA   412                  20$-                    ;  STANDARD DATA
                        01CA   413                  30$-                    ;  RECEIVED DATA
                        01CA   414                  >                       ;
          54    D4      01D4   415 10$:     CLRL    R4                      ; P2 = 0; SPECIFY NO USERDATA
          19    11      01D6   416          BRB     40$                     ; CONTINUE
       64       11      01D8   417 20$:     MOVL    #<1+16>,(R4)            ; SPECIFY SIZE OF USERDATA
                        01DB   418                                          ;  COUNTED STRING
  0000'CF       10      01DB   419          MOVB    #16,W^TST$GT_STANDARD   ; MODIFY COUNT
04 A4 0000'CF   9E      01E0   420          MOVAB   W^TST$GT_STANDARD,4(R4) ; SPECIFY ADDRESS OF COUNTED STRING
          09    11      01E6   421          BRB     40$                     ; CONTINUE
       64   6A   9A      01E8   422 30$:     MOVZBL  (R10),(R4)              ; SPECIFY SIZE OF RECEIVED DATA
          64    D6      01EB   423          INCL    (R4)                    ;  COUNTED STRING
    04 A4   5A   D0      01ED   424          MOVL    R10,4(R4)               ; SPECIFY ADDRESS OF COUNTED STRING
                        01F1   425
                        01F1   426 ;
                        01F1   427 ; DETERMINE WHETHER TO RESPOND WITH A SYNCHRONOUS DISCONNECT OR A
                        01F1   428 ; DISCONNECT ABORT.
                        01F1   429 ;
                        01F1   430
    52    03    D0      01F1   431 40$:     MOVL    #EFN_K_DISC_SYNC,R2     ; ASSUME SYNCHRONOUS DISCONNECT
      03  59    E9      01F4   432          BLBC    R9,50$                  ; IS IT A SYNC DISCONNECT REQUEST?
    52    04    D0      01F7   433          MOVL    #EFN_K_DISC_ABRT,R2     ; NO IT'S A DISCONNECT ABORT
       FE03'    30      01FA   434 50$:     BSBW    TST$QIOW                ; DISCONNECT THE LINK
                        01FD   435 DISC_SUCCESS:                            ; TEST WAS SUCCESSFUL
    50    01    D0      01FD   436          MOVL    #1,R0                   ; SET COMPLETION CODE TO SUCCESS
                        0200   437 DISC_FAILURE:                            ; ENTER HERE IF TEST FAILED
51  0000'CF   9E      0200   438          MOVAB   W^TST$GT_DISC,R1        ; RETURN ADDRESS OF TEST ID STRING
                  05    0205   439          RSB                             ; EXIT
```

```
                     0206   441          .SBTTL  TST$INTE_DTR - INTERRUPT TEST
                00000206   442          .PSECT  TST$CODE        NOWRT
                     0206   443
                     0206   444 ;++
                     0206   445 ; FUNCTIONAL DESCRIPTION:
                     0206   446 ;
                     0206   447 ;       NONE
                     0206   448 ;
                     0206   449 ; CALLING SEQUENCE:
                     0206   450 ;
                     0206   451 ;       BSB/JSB TST$INTE_DTR
                     0206   452 ;
                     0206   453 ; INPUT PARAMETERS:
                     0206   454 ;
                     0206   455 ;       R9      TEST SUBFUNCTION VALUE
                     0206   456 ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                     0206   457 ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                     0206   458 ;
                     0206   459 ; IMPLICIT INPUTS:
                     0206   460 ;
                     0206   461 ;       NONE
                     0206   462 ;
                     0206   463 ; OUTPUT PARAMETERS:
                     0206   464 ;
                     0206   465 ;       R0      COMPLETION CODE
                     0206   466 ;       R1      ADDRESS OF TEST ID STRING
                     0206   467 ;       R2-R11  DESTROYED
                     0206   468 ;
                     0206   469 ; IMPLICIT OUTPUTS:
                     0206   470 ;
                     0206   471 ;       NONE
                     0206   472 ;
                     0206   473 ; COMPLETION CODES:
                     0206   474 ;
                     0206   475 ;       R0      1 = SUCCESS; 0 = FAILURE
                     0206   476 ;
                     0206   477 ; SIDE EFFECTS:
                     0206   478 ;
                     0206   479 ;       NONE
                     0206   480 ;
                     0206   481 ;--
                     0206   482
                     0206   483 TST$INTE_DTR::                          ; ENTRY POINT
          03   59   91   0206   484          CMPB    R9,#VAL_K_TYPE_ECHO     ;
               0C   1B   0209   485          BLEQU   10$                     ;
             FF84   30   020B   486          BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
50  01F58053   8F   D0   020E   487          MOVL    #DTS$_BADSUBFCN,R0              ; GIVE REASON FOR FAILURE
               10   11   0215   488          BRB     15$                     ;INTERRUPT FAILURE
        01   03   AA   91   0217   489 10$:    CMPB    3(R10),#1               ;
               0D   13   021B   490          BEQL    20$                     ;
             FF72   30   021D   491          BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
50  01F58063   8F   D0   0220   492          MOVL    #DTS$_INVOPTION,R0              ; GIVE REASON FOR FAILURE
             0091   31   0227   493 15$:     BRW     INTE_FAILURE            ;
 0000'CF    03   AA   90   022A   494 20$:     MOVB    3(R10),W^TST$GB_RQUEUE  ; STORE FCVAL VALUE
               10   B0   0230   495          MOVW    #MAX_K_SIZE_IN,-        ; STORE INTERRUPT MESSAGE SIZE
          0000'CF        0232   496                  W^TST$GW_SIZE           ; SINCE THE TEST REQUEST DOES NOT
                       0235   497                                          ;  SPECIFY A SIZE, MAKE IT THE
```

```
                                0235   498                                             ;  MAXIMUM SIZE
                                0235   499
                                0235   500 ;
                                0235   501 ; RESPOND TO CONNECT INITIATE WITH A CONNECT ACCEPT WITHOUT USERDATA.
                                0235   502 ;
                                0235   503
                         FF55   30      504          BSBW    TST$CONN_ACCEPT            ;
                                0238   505
                                0238   506 ;
                                0238   507 ; INTERRUPT TEST INITIALIZATION
                                0238   508 ;
                                0238   509
                   0000'CF      7C     0238   510          CLRQ    W^TST$GL_XMITDATA          ; ZERO TRANSMIT AND RECEIVE
                                023C   511                                             ;  MESSAGE COUNTERS
                   0000'CF      7C     023C   512          CLRQ    W^TST$GL_XMITINTE          ; ZERO TRANSMIT AND RECEIVE
              0000'CF   01      D0     0240   513          MOVL    #1,W^TST$GL_STATUS         ; SET AST STATUS CODE TO SUCCESS
                                0245   514                                             ;  INTERRUPT MESSAGE COUNTERS
                   0000'CF      94     0245   515          CLRB    W^TST$GB_ASTFLAGS          ;NOTE TIMER RUNNING
00000000'EF   00000000'EF      DE     0249   516          MOVAL   TST$QB_QHEAD,TST$QB_QHEAD  ;INIT QUEUE HEAD
00000004'EF   00000000'EF      DE     0254   517          MOVAL   TST$QB_QHEAD,TST$QB_QHEAD+4
                                025F   518 ;
                                025F   519 ; PUT REPETITIONS OF THE STANDARD DATA PATTERN IN THE INTERRUPT MESSAGE BUFFER
                                025F   520 ; BEGINNING AT BUFFER+4.
                                025F   521 ;
                                025F   522
                53 0000'CF      9E     025F   523          MOVAB   W^TST$GB_INTEBUF,R3        ; GET ADDRESS OF MESSAGE
                      83        D4     0264   524          CLRL    (R3)+                      ; INITIALIZE MESSAGE SEQUENCE NUMBER
                54 0000'CF      3C     0266   525          MOVZWL  W^TST$GW_SIZE,R4           ; GET MESSAGE SIZE
                   54   04      B1     026B   526          CMPW    #4,R4                      ;ANY DATA IN MSG?
                        06      18     026E   527          BGEQ    30$                        ;NOPE DONT FILL BUFFER
                   54   04      C2     0270   528          SUBL2   #4,R4                      ; REDUCE SIZE ACCORDINGLY
                      FD8A'     30     0273   529          BSBW    TST$STANDARD               ; PUT STD DATA PATTERN IN BUFFER
                                0276   530
                                0276   531 30$:
                                0276   532 ;
                                0276   533 ; RECEIVE [AND TRANSMIT] INTERRUPT MESSAGES UNTIL DTS DISCONNECTS THE LINK
                                0276   534 ;
                                0276   535
                52   00         D0     0276   536          MOVL    #EFN_K_READ_MAIL,R2        ; GET FUNCTION/INDEX CODE
              54   00'8F         9A     0279   537          MOVZBL  #TST$K_MAILBUF,R4          ; GET MAILBOX BUFFER SIZE
           55 0000'CF            9E     027D   538          MOVAB   W^TST$MAILAST_DTR,R5       ; GET ADDRESS OF AST ROUTINE
                      FD7B'     30     0282   539          BSBW    TST$QIOAST                 ; START UP READ MAILBOX STREAM
                                0285   540
                                0285   541 ;
                                0285   542 ; WAIT FOR LINK DISCONNECT
                                0285   543 ;
                                0285   544
                         07     11     0285   545          BRB     110$                       ;CHECK FOR ASTS
                                0287   546 100$:
                                0287   547          $HIBER_S                           ;GO TO SLEEP TILL AN AST
                                028E   548 110$:
                23 0000'CF      E8     028E   549          BLBS    W^TST$GB_ASTFLAGS,120$     ;JUMP IF TIMER EXPIRED
             50 00000000'FF     0F     0293   550          REMQUE  @TST$QB_QHEAD,R0           ;DEQUEUE AN AST
                         EB     1D     029A   551          BVS     100$                       ;NOTHING THERE ,SLEEP
             52   0000'C0       D0     029C   552          MOVL    TST$QB_CODE(R0),R2                 ;QIO FUNCTION/CODE
             54   0000'C0       D0     02A1   553          MOVL    TST$QB_BUFLEN(R0),R4               ;SIZE FOR DATA MSG
             55   0000'C0       D0     02A6   554          MOVL    TST$QB_ASTADR(R0),R5       ;AST ADDRESS FOR QIO
```

```
                 FD52'  30   02AB    555          BSBW    TST$QIOAST              ;DO QIO WITH AST
                        02AE    556          CHECK_SS                            ;MAKE SERVICE OKAY
              07 51     E9   02B1    557          BLBC    R1,INTE_FAILURE         ;LINK ABORTED
                 DB     11   02B4    558          BRB     110$                    ;DEQUEUE ANOTHER
                        02B6    559 120$:
                        02B6    560
                        02B6    561 ;
                        02B6    562 ; INTERRUPT TEST IS FINISHED
                        02B6    563 ;
                        02B6    564
        50  0000'CF     D0   02B6    565          MOVL    W^TST$GL_STATUS,R0      ; POST STATUS
                        02BB    566 INTE_FAILURE:                               ; ENTER HERE IF TEST FAILED
        51  0000'CF     9E   02BB    567          MOVAB   W^TST$GT_INTE,R1        ; RETURN ADDRESS OF TEST ID STRING
                        05   02C0    568          RSB                             ; EXIT
```

```
                                                J 2
                     02C1    570          .SBTTL  TST$MISC_DTR - MISCELLANEOUS TEST
                0000 02C1    571          .PSECT  TST$CODE        NOWRT
                     02C1    572
                     02C1    573 ;++
                     02C1    574 ; FUNCTIONAL DESCRIPTION:
                     02C1    575 ;
                     02C1    576 ;       NONE
                     02C1    577 ;
                     02C1    578 ; CALLING SEQUENCE:
                     02C1    579 ;
                     02C1    580 ;       BSB/JSB TST$MISC_DTR
                     02C1    581 ;
                     02C1    582 ; INPUT PARAMETERS:
                     02C1    583 ;
                     02C1    584 ;       R9      TEST SUBFUNCTION VALUE
                     02C1    585 ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                     02C1    586 ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                     02C1    587 ;
                     02C1    588 ; IMPLICIT INPUTS:
                     02C1    589 ;
                     02C1    590 ;       NONE
                     02C1    591 ;
                     02C1    592 ; OUTPUT PARAMETERS:
                     02C1    593 ;
                     02C1    594 ;       R0      COMPLETION CODE
                     02C1    595 ;       R1      ADDRESS OF TEST ID STRING
                     02C1    596 ;       R2-R11  DESTROYED
                     02C1    597 ;
                     02C1    598 ; IMPLICIT OUTPUTS:
                     02C1    599 ;
                     02C1    600 ;       NONE
                     02C1    601 ;
                     02C1    602 ; COMPLETION CODES:
                     02C1    603 ;
                     02C1    604 ;       RC      1 = SUCCESS; 0 = FAILURE
                     02C1    605 ;
                     02C1    606 ; SIDE EFFECTS:
                     02C1    607 ;
                     02C1    608 ;       NONE
                     02C1    609 ;
                     02C1    610 ;--
                     02C1    611
                     02C1    612 TST$MISC_DTR::                          ; ENTRY POINT
                     02C1    613 MISC_SUCCESS:                           ; TEST WAS SUCCESSFUL
          50   01    D0  02C1    614         MOVL    #1,R0                ; SET COMPLETION CODE TO SUCCESS
                     02C4    615 MISC_FAILURE:                           ; ENTER HERE IF TEST FAILED
     51   0000'CF    9E  02C4    616         MOVAB   W^TST$GT_MISC,R1     ; RETURN ADDRESS OF TEST ID STRING
                      05 02C9    617         RSB                          ; EXIT
```

```
                     02CA   619          .SBTTL  TST$BAD_DTR - INVALID TEST TYPE
                00000002CA   620          .PSECT  TST$CODE        NOWRT
                     02CA   621
                     02CA   622 ;++
                     02CA   623 ; FUNCTIONAL DESCRIPTION:
                     02CA   624 ;
                     02CA   625 ;       NONE
                     02CA   626 ;
                     02CA   627 ; CALLING SEQUENCE:
                     02CA   628 ;
                     02CA   629 ;       BSB/JSB TST$BAD_DTR
                     02CA   630 ;
                     02CA   631 ; INPUT PARAMETERS:
                     02CA   632 ;
                     02CA   633 ;       R9      TEST SUBFUNCTION VALUE
                     02CA   634 ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                     02CA   635 ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                     02CA   636 ;
                     02CA   637 ; IMPLICIT INPUTS:
                     02CA   638 ;
                     02CA   639 ;       NONE
                     02CA   640 ;
                     02CA   641 ; OUTPUT PARAMETERS:
                     02CA   642 ;
                     02CA   643 ;       R0      COMPLETION CODE
                     02CA   644 ;       R1      ADDRESS OF TEST ID STRING
                     02CA   645 ;       R2-R11  DESTROYED
                     02CA   646 ;
                     02CA   647 ; IMPLICIT OUTPUTS:
                     02CA   648 ;
                     02CA   649 ;       NONE
                     02CA   650 ;
                     02CA   651 ; COMPLETION CODES:
                     02CA   652 ;
                     02CA   653 ;       R0      8 = FAILURE
                     02CA   654 ;
                     02CA   655 ; SIDE EFFECTS:
                     02CA   656 ;
                     02CA   657 ;       NONE
                     02CA   658 ;
                     02CA   659 ;--
                     02CA   660
                     02CA   661 TST$BAD_DTR::                           ; ENTRY POINT
                         FEC5 30 02CA   662          BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
          50  01F5805B 8F   D0 02CD   663          MOVL    #DTS$_BADFUNC,R0
                                                                         ; GIVE REASON FOR FAILURE
              51   0000'CF   9E 02D4   664          MOVAB   W^TST$GT_ERROR,R1       ; RETURN ADDRESS OF TEST ID STRING
                             05 02D9   665          RSB                             ; EXIT
                             02DA   666          .END
```

```
$$COUNT          =  00000003
ACCEPT_REJECT       00000195 R      02
CONN_FAILURE        00000067 R      02
CONN_SUCCESS        00000064 R      02
DATA_FAILURE        00000187 R      02
DISC_FAILURE        00000200 R      02
DISC_SUCCESS        000001FD R      02
DTS$_BADFUNC     =  01F5805B
DTS$_BADMAIL     =  01F5803B
DTS$_BADSUBFCN   =  01F58053
DTS$_INVOPTION   =  01F58063
EFN_K_CONN_ACCE  =  00000001
EFN_K_CONN_REJE  =  00000002
EFN_K_DISC_ABRT  =  00000004
EFN_K_DISC_SYNC  =  00000003
EFN_K_READ_MAIL  =  00000000
EFN_K_RECV_DATA  =  00000007
INTE_FAILURE        000002BB R      02
K_LIST_MEB       =  00000000
MAX_K_SIZE_DA    =  00001000
MAX_K_SIZE_IN    =  00000010
MISC_FAILURE        000002C4 R      02
MISC_SUCCESS        000002C1 R      02
MSG$_ABORT       =  00000030
MSG$_DISCON      =  00000033
RT                  00000000 RG     02
SYS$HIBER           ********  GX    02
TST$BAD_DTR         000002CA RG     02
TST$CHECK_SS        ********    X   02
TST$CONN_ACCEPT     0000018D RG     02
TST$CONN_DTR        00000000 RG     02
TST$CONN_REJECT     00000192 RG     02
TST$DATA_DTR        0000006D RG     02
TST$DISC_DTR        000001A4 RG     02
TST$EXAM_MAIL       ********     X  02
TST$GB_ASTFLAGS     ********     X  02
TST$GB_BACK         ********     X  02
TST$GB_FLOW         ********     X  02
TST$GB_INTEBUF      ********     X  02
TST$GB_NAK          ********     X  02
TST$GB_RQUEUE       ********     X  02
TST$GB_XMITBUF      ********     X  02
TST$GL_FAOARG       ********     X  02
TST$GL_STATUS       ********     X  02
TST$GL_XMITDATA     ********     X  02
TST$GL_XMITINTE     ********     X  02
TST$GQ_DEACCESS     ********     X  02
TST$GT_CONN         ********     X  02
TST$GT_DATA         ********     X  02
TST$GT_DISC         ********     X  02
TST$GT_ERROR        ********     X  02
TST$GT_INTE         ********     X  02
TST$GT_MISC         ********     X  02
TST$GT_STANDARD     ********     X  02
TST$GW_SIZE         ********     X  02
TST$INTE_DTR        00000206 RG     02
TST$K_MAILBUF       ********     X  02
TST$MAILAST_DTR     ********     X  02
TST$MISC_DTR        000002C1 RG     02
TST$QB_ASTADR       ********     X  02
TST$QB_BUFLEN       ********     X  02
TST$QB_CODE         ********     X  02
TST$QB_QHEAD        ********     X  02
TST$QIOAST          ********     X  02
TST$QIOW            ********     X  02
TST$RECVAST_DTR     ********     X  02
TST$STANDARD        ********     X  02
VAL_K_BACK_NO    =  00000000
VAL_K_DISP_NO    =  00000000
VAL_K_FLOW_MESS  =  00000002
VAL_K_NAK_NO     =  00000000
VAL_K_PRIN_NO    =  00000000
VAL_K_RETU_NO    =  00000000
VAL_K_STAT_YES   =  00000001
VAL_K_TYPE_ABRT  =  00000001
VAL_K_TYPE_ACCE  =  00000001
VAL_K_TYPE_ECHO  =  00000003
VAL_K_TYPE_NAME  =  00000000
VAL_K_TYPE_SINK  =  00000000
```

Psect synopsis

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
ABS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
TST$CODE	000002DA (730.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.08	00:00:00.78
Command processing	133	00:00:00.67	00:00:03.18
Pass 1	207	00:00:05.17	00:00:13.99
Symbol table sort	0	00:00:00.23	00:00:00.33
Pass 2	122	00:00:01.89	00:00:05.10
Symbol table output	8	00:00:00.07	00:00:00.10
Psect synopsis output	2	00:00:00.03	00:00:00.10
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	510	00:00:08.14	00:00:23.59

The working set limit was 1350 pages.
25405 bytes (50 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 208 non-local and 31 local symbols.
728 source lines were read in Pass 1, producing 18 object records in Pass 2.
22 pages of virtual memory were used to define 18 macros.

Macro library statistics

Macro library name	Macros defined
_255DUA28:[DTSDTR.OBJ]DTSDTR.MLB;1	6
_255DUA28:[SYSLIB]STARLET.MLB;2	6
TOTALS (all libraries)	12

289 GETS were required to define 12 macros.

There were no errors, warnings or information messages.

```
MACRO/LIS=LIS$:DTRTEST/OBJ=OBJ$:DTRTEST MSRC$:DTPREFIX/UPDATE=(ENH$:DTPREFIX)+MSRC$:DTRTEST/UPDATE=(ENH$:DTRTEST)
```

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DTSMAIN
LIS

DUMP
LIS

DUMPFILE
LIS

DTSMSG
LIS

DTSPARSE
LIS

DTRTEST
LIS

DUMPFAOLN
LIS

DUMPRE
REQ

DUMP

DUMP
MAP

DUMPHEADE
LIS

DTSAST
LIS

DTSTEST
LIS